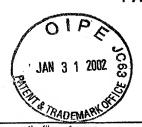
PATENT COOPERATION TREATY



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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Applicant's or agent's file reference	ACTION See Notification of the ACTION (Form PCT/ISA/2)	(20) as well as, where application, item 5 below.
FP68767-1RMS	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
International application No.		
PCT/US 00/35666	28/12/2000	28/12/1999
Applicant		
PANGENE CORPORATION		
according to Article 18. A copy is being tra This International Search Report consists	_	
it is also accompanied by	a copy of each prior are accument one and an	
Basis of the report	V =	
a. With regard to the language, the	international search was carried out on the baless otherwise indicated under this item.	sis of the international application in the
the international search w	ras carried out on the basis of a translation of t	he international application furnished to this
Authority (Rule 23.1(b)).	d/or amino acid sequence disclosed in the in	nternational application, the international search
was carried out on the basis of the	e sequence listing:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1 —	onal application in written form.	m
1 == -	ernational application in computer readable for this Authority in written form.	
	this Authority in computer readble form.	
	osequently furnished written sequence listing of	does not go beyond the disclosure in the
international application a	s filed has been furnished.	
the statement that the info furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac		
· —		
4. With regard to the title,		
the text is approved as su		
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
	ubmitted by the applicant.	
the text has been establish within one month from the	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pub	lished with the abstract is Figure No.	
as suggested by the appl	licant.	None of the figures.
because the applicant fai	led to suggest a figure.	
because this figure better	r characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 00/35666

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68

C. DOCUMENTS CONSIDERED TO BE RELEVANT

the whole document

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{lem:model} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C12Q} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	US 5 670 316 A (SENA ELISSA P ET AL) 23 September 1997 (1997-09-23) the whole document	1-14
Υ	US 5 510 473 A (CAMERINI-OTERO RAFAEL D ET AL) 23 April 1996 (1996-04-23) abstract; example 9	1-5,7-14
Y	BAUMANN P ET AL: "Role of the human RAD51 protein in homologous recombination and double-stranded-break repair" TIBS TRENDS IN BIOCHEMICAL SCIENCES, ELSEVIER PUBLICATION, CAMBRIDGE, EN, vol. 23, no. 7, 1 July 1998 (1998-07-01), pages 247-251, XP004126976 ISSN: 0968-0004	1,2,6,9

χ Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.		
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
25 September 2001	02/10/2001		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	Authorized officer		
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Knehr, M		

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US 00/35666

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
A	SENA E P AND ZARLING D A: "Targeting in linear DNA duplexes with two complementary probe strands for hybrid stability" NATURE GENETICS, vol. 3, 1993, pages 365-372, XP001028263 the whole document			
Ρ,Χ	WO 00 56872 A (PANGENE CORP) 28 September 2000 (2000-09-28) the whole document		1-14	
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		*		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 00/35666

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5670316	Α	23-09-1997	US	5273881 A	28-12-1993
			US	5223414 A	29-06-1993
			AU	661505 B2	27-07-1995
			DE	69220084 D1	03-07-1997
			DE	69220084 T2	11-09-1997
			EP	0612352 A1	31-08-1994
		•	FΙ	941016 A	03-05-1994
			JP	6510201 T	17-11-1994
			KR	245284 B1	02-03-2000
			NO	940744 A	02-05-1994
			ΑT	153707 T	15-06-1997
			AU	2540192 A	05-04-1993
			CA	2116215 A1	05-03-1993
			DK	612352 T3	30-06-1997
			ES	2101867 T3	16-07-1997
			WO	9305178 A1	18-03-1993
			JP	2745816 B2	28-04-1998
			CA	2056983 A1	08-11-1991
			DE	69122712 D1	21-11-1996
			DE	69122712 T2	20-02-1997
			EP	0481065 A1	22-04-1992
			JP	3010738 B2	21-02-2000
			JP	4507198 T	17-12-1992
			WO	9117267 A1	14-11-1991
US 5510473	Α	23-04-1996	US	5460941 A	24-10-1995
			US	5731411 A	24-03-1998
			AU	658386 B2	13-04-1995
			AU	9111691 A	11-06-1992
			CA	2095624 A1	10-05-1992
			EP	0556330 A1	25-08-1993
			JP	2739378 B2	15-04-1998
			JP	6500926 T	27-01-1994
			WO	9208791 A1	29-05-1992
WO 0056872	Α	28-09-2000	AU	3769000 A	09-10-2000
			WO	0056872 A2	28-09-2000